

## EAST Search History

| Ref # | Hits | Search Query  | DBs                                | Default Operator | Plurals | Time Stamp       |
|-------|------|---|------------------------------------|------------------|---------|------------------|
| L3    | 3    | ((("7141978") or ("4820399") or ("6194900"))).PN.   | USPAT                              | OR               | OFF     | 2006/12/15 11:13 |
| L5    | 119  | electrochemical and electrode\$1 same (carbon with (adhesive or binder) same (polytetraflourethylne or teflon\$3))  | US-PGPUB; USPAT; EPO; JPO; DERWENT | AND              | OFF     | 2006/12/15 11:16 |
| L6    | 84   | electrochemical and electrode\$1 same (carbon with (adhesive or binder) with (polytetraflourethylne or teflon\$3))  | US-PGPUB; USPAT; EPO; JPO; DERWENT | AND              | OFF     | 2006/12/15 11:17 |
| L7    | 18   | electrochemical and electrode\$1 same (carbon with (adhesive or binder) with (polytetraflourethylne or teflon\$3)) and (determin\$3 or detect\$) with (fluid or sample or solution or liquid) | US-PGPUB; USPAT; EPO; JPO; DERWENT | AND              | OFF     | 2006/12/15 11:18 |
| S1    | 1998 | 204/403.01,409,411,412.ccls.  | US-PGPUB; USPAT; EPO; JPO; DERWENT | AND              | OFF     | 2006/12/08 16:35 |
| S2    | 563  | 204/603,452.ccls.   | US-PGPUB; USPAT; EPO; JPO; DERWENT | AND              | OFF     | 2006/12/08 12:17 |
| S3    | 1332 | 205/775,777.5,792.ccls.   | US-PGPUB; USPAT; EPO; JPO; DERWENT | AND              | OFF     | 2006/12/13 10:45 |
| S4    | 1    | ("20040099531").PN.   | US-PGPUB                           | OR               | OFF     | 2006/12/08 13:44 |
| S5    | 1    | ("20040084306").PN.   | US-PGPUB                           | OR               | OFF     | 2006/12/08 16:22 |
| S6    | 85   | Shin-Dong-Ho.in.  | US-PGPUB; USPAT; EPO; JPO; DERWENT | AND              | OFF     | 2006/12/08 13:46 |
| S7    | 24   | Shin-Dong-Ho.in. and electrode\$1   | US-PGPUB; USPAT; EPO; JPO; DERWENT | AND              | OFF     | 2006/12/08 13:46 |
| S8    | 11   | Shin-Dong-Ho.in. and electrode\$1 and sensor\$1   | US-PGPUB; USPAT; EPO; JPO; DERWENT | AND              | OFF     | 2006/12/08 14:13 |

## EAST Search History

|     |      |  |   |     |     |                  |
|-----|------|--|---|-----|-----|------------------|
| S9  | 25   | ("20020048532" "20020079219" "20020090649" "20020122747" "20020180446" "20030039585" "4818348" "4888295" "5047352" "5106756" "5906723" "6126804" "6485690").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/08 14:14 |
| S10 | 2    | Kang-Sun Kil.in. or Kim-Hyokyum.in. or Kim-Youn Tae.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/08 16:19 |
| S11 | 738  | 204/406.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 15:14 |
| S12 | 4    | ((("5324483") or ("5603351"))).PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR  | OFF | 2006/12/08 16:30 |
| S13 | 1998 | 204/403.01,409,411,412.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/08 16:39 |
| S14 | 48   | (S13 or S11) and (channel\$1 or (micro adj channel\$1)) and (electrochemical adj cell\$1) and (working adj electrode\$1) and (counter adj electrode\$1) and (reference adj electrode\$1) and (solution or sample or fluid)                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/08 16:50 |
| S16 | 101  | (S13 or S11) and ((channel\$1 or (micro adj channel\$1)) with (reservoir or connect\$3 or interconnect\$3 or communicat\$3)) and (electrochemical adj (cell\$1 or sensor\$1)) and electrode\$1 and (solution or sample or fluid)           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/08 16:56 |
| S18 | 38   | (S13 or S11) and ((channel\$1 or (micro adj channel\$1)) with (reservoir or connect\$3 or interconnect\$3 or communicat\$3)) and (electrochemical adj (cell\$1 or sensor\$1)) and electrode\$1 and (solution or sample or fluid) and array | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/08 17:10 |
| S20 | 154  | (S13 or S11) and (electrochemical adj (cell\$1 or sensor\$1)) and electrode\$1 and (solution or sample or fluid) and ("sensors" or (sensor adj array)) not S18 and (channel\$1 or (micro adj channel\$1))                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/08 17:13 |

## EAST Search History

|     |      |   |   |     |     |                  |
|-----|------|---|---|-----|-----|------------------|
| S21 | 11   | (S13 or S11) and (electrochemical adj (cell\$1 or sensor\$1)) and electrode\$1 and (solution or sample or fluid) and (sensor adj array) not S18 and (channel\$1 or (micro adj channel\$1))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/08 17:21 |
| S22 | 29   | (S13 or S11) and (electrochemical adj (cell\$1 or sensor\$1)) and electrode\$1 and (solution or sample or fluid) and (sensor adj array) not S18 and (sensor\$1 with (connect\$3 or communicat\$3 or interconnect\$3))                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 10:36 |
| S23 | 44   | (S13 or S11) and electrochemical and electrode\$1 and (solution or sample or fluid) not S18 and (sens\$3 with (connect\$3 or communicat\$3 or interconnect\$3) with (channel\$1 or (micro adj channel\$1)))                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/08 17:49 |
| S24 | 76   | (S13 or S11) and electrochemical and electrode\$1 and (solution or sample or fluid) not S18 and (sens\$3 with (connect\$3 or communicat\$3 or interconnect\$3) with (passage\$1 or (micro adj passage\$1) or tub\$3 or pip\$3 or conduit\$1)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 10:25 |
| S25 | 0    | (S13 or S11) and electrochemical and electrode\$1 and (solution or sample or fluid) not S18 and inter-coupled   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/08 18:17 |
| S26 | 12   | (S13 or S11) and electrochemical and electrode\$1 and (solution or sample or fluid) not S18 and multiplexer and (channel\$1 or (micro adj channel\$))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/08 18:18 |
| S27 | 738  | 204/406.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 10:02 |
| S28 | 1998 | 204/403.01,409,411,412.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 13:28 |

## EAST Search History

|     |      |  |   |     |     |                  |
|-----|------|--|---|-----|-----|------------------|
| S29 | 38   | (S28 or S27) and ((channel\$1 or (micro adj channel\$1)) with (reservoir or connect\$3 or interconnect\$3 or communicat\$3)) and (electrochemical adj (cell\$1 or sensor\$1)) and electrode\$1 and (solution or sample or fluid) and array   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 10:02 |
| S31 | 24   | (US-20020157947-\$ or US-20020090649-\$ or US-20020122747-\$).did. or (US-5603351-\$ or US-5324483-\$ or US-6140045-\$ or US-4511659-\$ or US-7108774-\$ or US-6942771-\$ or US-6451606-\$ or US-6123820-\$ or US-6699384-\$ or US-5781024-\$ or US-5351563-\$ or US-5228350-\$ or US-5469070-\$ or US-5342498-\$ or US-5120421-\$ or US-4874500-\$ or US-4591414-\$ or US-6184029-\$ or US-6376233-\$ or US-5194133-\$ or US-6485690-\$).did. | US-PGPUB;<br>USPAT                          | AND | OFF | 2006/12/11 10:04 |
| S32 | 10   | S31 and binding  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 10:19 |
| S38 | 563  | 204/603,452.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 10:30 |
| S39 | 1332 | 205/775,777.5,792.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 10:30 |
| S40 | 1044 | (S28 or S27 or S39 or S38) and electrochemical same (sens\$3 or cell\$1) and electrode\$1 and (solution or sample or fluid) and (channel\$1 or (micro adj channel\$) or passage\$1 or (micro adj passage\$1) or tub\$3 or pip\$3 or conduit\$1)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 10:33 |
| S41 | 272  | (S28 or S27 or S39 or S38) and electrochemical same (sens\$3 or cell\$1) and electrode\$1 and (solution or sample or fluid) and (channel\$1 or (micro adj channel\$) or passage\$1 or (micro adj passage\$1) or tub\$3 or pip\$3 or conduit\$1) and reservoir  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 10:37 |

## EAST Search History

|     |    |  |   |     |     |                  |
|-----|----|--|---|-----|-----|------------------|
| S42 | 80 | (S28 or S27 or S39 or S38) and electrochemical same (sens\$3 or cell\$1) and electrode\$1 and (solution or sample or fluid) and ((sens\$3 or cell\$1 or electrode\$1) with (channel\$1 or (micro adj channel\$) or passage\$1 or (micro adj passage\$1) or tub\$3 or line\$1) with (connect\$3 or coupl\$3 or (inter adj coupl\$3) or communicat\$3 or interconnect\$3) with (hold\$3 or chamber\$1 or reservoir or container))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 10:41 |
| S43 | 31 | (US-20020157947-\$ or US-20020090649-\$ or US-20020122747-\$ or US-20050037348-\$ or US-20050014129-\$).did. or (US-5603351-\$ or US-5324483-\$ or US-6140045-\$ or US-4511659-\$ or US-7108774-\$ or US-6942771-\$ or US-6451606-\$ or US-6123820-\$ or US-6699384-\$ or US-5781024-\$ or US-5351563-\$ or US-5228350-\$ or US-5469070-\$ or US-5342498-\$ or US-5120421-\$ or US-4874500-\$ or US-4591414-\$ or US-6184029-\$ or US-6376233-\$ or US-5194133-\$ or US-6485690-\$ or US-6818109-\$ or US-6716642-\$ or US-6630359-\$ or US-6251595-\$ or US-5728532-\$). did. | US-PGPUB;<br>USPAT                          | AND | OFF | 2006/12/11 11:14 |
| S44 | 30 | S43 and (channel\$1 or (micro adj channel\$) or passage\$1 or (micro adj passage\$1) or tub\$3 or line\$1)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 11:15 |
| S45 | 25 | S43 and (channels or (micro adj channels) or passages or (micro adj passages) or tubes or lines)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 11:29 |
| S46 | 1  | S43 and (micro adj pump\$1)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 13:14 |
| S47 | 0  | S43 and (micro adj heat\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 13:14 |
| S48 | 2  | (S28 or S27) and (micro adj heat\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 13:31 |

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|     |     |   |   |     |     |                  |
|-----|-----|---|---|-----|-----|------------------|
| S49 | 3   | (S28 or S27 or S38 or S39) and (micro adj heat\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 13:34 |
| S51 | 241 | (micro adj heat\$3) with (sens\$3 or cell\$1 or electrode\$)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 13:59 |
| S52 | 32  | Srinivasan-Rengaswamy.in. or Saffarian-Hassan-M.in. or Feldman-Andrew-B.in. or Demirev-Plamen.in. or Scholl-Peter-F.in. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 14:57 |
| S53 | 12  | S52 and electrochemical sens\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 13:52 |
| S54 | 93  | (micro adj heat\$3) with (sens\$3 or cell\$1 or electrode\$) and (array\$2 or matrix)                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 14:15 |
| S55 | 2   | (micro adj heat\$3) and (electrochemical adj sens\$3) and (sens\$3 with electrode\$1)                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 15:42 |
| S56 | 4   | (micro adj heat\$3) and (electrochemical adj sens\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 14:26 |
| S57 | 4   | Gong-Haiqing.in. or Yap-Eric Peng Huat.in. or Ayi-Teck Choon.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 14:27 |

## EAST Search History

|     |    |  |   |     |     |                  |
|-----|----|--|---|-----|-----|------------------|
| S58 | 32 | (US-20020157947-\$ or US-20020090649-\$ or US-20020122747-\$ or US-20050037348-\$ or US-20050014129-\$ or US-20030138941-\$ or US-20030085024-\$).did. or (US-5603351-\$ or US-5324483-\$ or US-6140045-\$ or US-4511659-\$ or US-7108774-\$ or US-6942771-\$ or US-6451606-\$ or US-6123820-\$ or US-6699384-\$ or US-5351563-\$ or US-5228350-\$ or US-5469070-\$ or US-5342498-\$ or US-4874500-\$ or US-4591414-\$ or US-6184029-\$ or US-6376233-\$ or US-5194133-\$ or US-6485690-\$ or US-6818109-\$ or US-6716642-\$ or US-6630359-\$ or US-6251595-\$ or US-5728532-\$ or US-5993634-\$).did. | US-PGPUB;<br>USPAT                          | AND | OFF | 2006/12/11 15:14 |
| S59 | 9  | S58 and multiplex\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 15:29 |
| S60 | 3  | S58 and (micro adj heat\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 15:29 |
| S64 | 8  | (S28 or S27 or S39 or S38) and heat\$3 with electrode\$1 with bind\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 16:03 |
| S67 | 26 | (S28 or S27 or S39 or S38) and (heat\$3 or temperature or warm\$3) with electrode\$1 with bind\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 16:14 |
| S68 | 65 | (S28 or S27 or S39 or S38) and (heat\$3 or temperature or warm\$3) with electrode\$1 same bind\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 16:32 |
| S69 | 1  | (S28 or S27 or S39 or S38) and (heat\$3 or temperature or warm\$3) with electrode\$1 same bind\$3 same (after adj step)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 18:09 |
| S70 | 10 | S52 and heat\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 16:38 |

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|     |     |  |   |     |     |                  |
|-----|-----|--|---|-----|-----|------------------|
| S72 | 34  | (US-20020157947-\$ or<br>US-20020090649-\$ or<br>US-20020122747-\$ or<br>US-20050037348-\$ or<br>US-20050014129-\$ or<br>US-20030138941-\$ or<br>US-20030085024-\$ or<br>US-20030175737-\$).did. or<br>(US-5603351-\$ or US-5324483-\$ or<br>US-6140045-\$ or US-4511659-\$ or<br>US-7108774-\$ or US-6942771-\$ or<br>US-6451606-\$ or US-6123820-\$ or<br>US-6699384-\$ or US-5351563-\$ or<br>US-5228350-\$ or US-5469070-\$ or<br>US-5342498-\$ or US-4874500-\$ or<br>US-4591414-\$ or US-6184029-\$ or<br>US-6376233-\$ or US-5194133-\$ or<br>US-6485690-\$ or US-6818109-\$ or<br>US-6716642-\$ or US-6630359-\$ or<br>US-6251595-\$ or US-5728532-\$ or<br>US-5993634-\$ or US-6468416-\$).<br>did. | US-PGPUB;<br>USPAT                          | AND | OFF | 2006/12/11 16:47 |
| S73 | 9   | S72 and (working and counter and<br>reference) same electrode\$1   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 11:08 |
| S75 | 1   | S72 and (electrolyt\$2 same filte\$4)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 18:01 |
| S76 | 3   | S72 and ((wet or aqueous) same<br>filte\$4)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 18:15 |
| S77 | 63  | (S28 or S27 or S39 or S38) and<br>(electrolyt\$2 with filter\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 18:22 |
| S78 | 2   | S72 and (glass adj frit)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/11 18:20 |
| S80 | 5   | (S28 or S27 or S39 or S38) and<br>(glass adj frit) with filter\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 10:32 |
| S81 | 738 | 204/406.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 10:33 |



## EAST Search History

|     |      |  |   |     |     |                  |
|-----|------|--|---|-----|-----|------------------|
| S82 | 1999 | 204/403.01,409,411,412.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 10:33 |
| S83 | 563  | 204/603,452.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 10:33 |
| S84 | 1332 | 205/775,777.5,792.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 10:33 |
| S85 | 6    | (S82 or S81 or S84 or S83) and<br>(glass adj frit) same filter\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 10:36 |
| S86 | 26   | (S82 or S81 or S84 or S83) and<br>(glass adj frit) same electrode\$1   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 10:39 |
| S87 | 1    | (S82 or S81 or S84 or S83) and<br>(glass adj frit) with external with<br>(sens\$3 or cell\$1 or electrode\$1)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 10:40 |
| S88 | 6    | (S82 or S81 or S84 or S83) and<br>(glass adj frit) with (external or<br>outside or separat\$2 or apart or<br>attach\$3) with (sens\$3 or cell\$1 or<br>electrode\$1) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 10:47 |
| S89 | 0    | (S82 or S81 or S84 or S83) and<br>(glass adj frit) with (divid\$3) with<br>(sens\$3 or cell\$1 or electrode\$1)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 10:48 |
| S90 | 23   | (S82 or S81 or S84 or S83) and<br>(glass adj frit) with (sens\$3 or<br>cell\$1 or electrode\$1)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 10:48 |

## EAST Search History

|     |    |  |   |     |     |                  |
|-----|----|--|---|-----|-----|------------------|
| S91 | 36 | (US-20020090649-\$ or US-20020122747-\$ or US-20050014129-\$ or US-20020157947-\$ or US-20050037348-\$ or US-20030085024-\$ or US-20030138941-\$ or US-20030175737-\$ or US-20020148727-\$).did. or (US-6942771-\$ or US-6699384-\$ or US-6123820-\$ or US-6140045-\$ or US-6485690-\$ or US-6184029-\$ or US-5194133-\$ or US-4511659-\$ or US-5324483-\$ or US-6451606-\$ or US-5469070-\$ or US-5351563-\$ or US-5228350-\$ or US-4591414-\$ or US-7108774-\$ or US-6376233-\$ or US-5342498-\$ or US-4874500-\$ or US-6818109-\$ or US-5993634-\$ or US-6716642-\$ or US-6630359-\$ or US-6251595-\$ or US-5603351-\$ or US-6468416-\$ or US-5728532-\$). did. or (US-6478950-\$).did. | US-PGPUB;<br>USPAT                          | AND | OFF | 2006/12/12 10:53 |
| S92 | 3  | S91 and capillary with housing   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 11:01 |
| S93 | 2  | S91 and (electrochemical adj (cell\$1 or sens\$3)) and ((hous\$3 or enclos\$3 or cover\$3 or cas\$3 or encased or enveloped or protect\$3) with capillary)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 11:05 |
| S96 | 90 | (S82 or S81 or S84 or S83) and (electrochemical adj (cell\$1 or sens\$3)) and (sens\$3 or cell\$1) same (hous\$3 or enclos\$3 or cover\$3 or cas\$3 or encased or enveloped or protect\$3) same capillary  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 13:53 |
| S97 | 60 | (S82 or S81 or S84 or S83) and (electrochemical adj (cell\$1 or sens\$3)) and (sens\$3 or cell\$1) same (hous\$3 or enclos\$3 or cover\$3 or cas\$3 or encased or enveloped or protect\$3) same capillary and cell   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 11:37 |
| S98 | 75 | (electrochemical adj (cell\$1 or sens\$3)) and (sens\$3 or cell\$1) with (hous\$3 or enclos\$3 or cover\$3 or cas\$3 or encased or enveloped or protect\$3) with capillary and cell  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 11:44 |

## EAST Search History

|          |     |   |   |     |     |                  |
|----------|-----|---|---|-----|-----|------------------|
| S99      | 786 | (electrochemical adj (cell\$1 or sens\$3)) and (sens\$3 or cell\$1) with (hous\$3 or cas\$3) with (capillary or cylindrical or cylinder) and cell   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 12:07 |
| S10<br>0 | 48  | (electrochemical adj (cell\$1 or sens\$3)) and (sens\$3 or cell\$1) with (hous\$3 or cas\$3) with (capillary) and cell  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 11:54 |
| S10<br>5 | 58  | (electrochemical adj (cell\$1 or sens\$3)) and (sens\$3 or cell\$1) with (hous\$3 or cas\$3) with (capillary or cylindrical or cylinder) with (glass or plastic) and cell   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 12:09 |
| S10<br>6 | 54  | (electrochemical adj (cell\$1 or sens\$3)) and (sens\$3 or cell\$1) with (hous\$3 or cas\$3) with (cylindrical or cylinder) with (glass or plastic) and cell  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 12:09 |
| S10<br>7 | 41  | (US-20020090649-\$ or US-20020122747-\$ or US-20050014129-\$ or US-20020157947-\$ or US-20050037348-\$ or US-20030085024-\$ or US-20030138941-\$ or US-20030175737-\$ or US-20020148727-\$ or US-20030209442-\$ or US-20020100692-\$).did. or (US-6942771-\$ or US-6699384-\$ or US-6123820-\$ or US-6140045-\$ or US-6485690-\$ or US-6184029-\$ or US-5194133-\$ or US-4511659-\$ or US-5324483-\$ or US-6451606-\$ or US-5469070-\$ or US-5351563-\$ or US-5228350-\$ or US-4591414-\$ or US-7108774-\$ or US-6376233-\$ or US-5342498-\$ or US-4874500-\$ or US-6818109-\$ or US-5993634-\$ or US-6716642-\$ or US-6630359-\$ or US-6251595-\$ or US-5603351-\$ or US-6468416-\$ or US-5728532-\$). did. or (US-6478950-\$ or US-5902467-\$ or US-4167807-\$ or US-5290420-\$).did. | US-PGPUB;<br>USPAT                          | AND | OFF | 2006/12/12 13:44 |
| S10<br>8 | 31  | S107 and (exit or fill\$ or (over adj flow))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 12:51 |

## EAST Search History

|          |    |  |   |     |     |                  |
|----------|----|--|---|-----|-----|------------------|
| S11<br>0 | 15 | S107 and exit\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 13:28 |
| S11<br>1 | 22 | S107 and (outlet or exit\$1 or waste)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 12:54 |
| S11<br>2 | 0  | S107 and (over adj flow)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 13:29 |
| S11<br>3 | 3  | S107 and overflow  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 13:33 |
| S11<br>4 | 16 | S107 and excess\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 13:33 |
| S11<br>5 | 0  | S107 and microcircuit  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 13:44 |
| S11<br>6 | 6  | S107 and (micro with circuit\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 13:48 |
| S11<br>7 | 0  | S107 and (micro adj circuit\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 13:48 |
| S11<br>8 | 1  | S107 and (microcircuit\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 13:48 |
| S11<br>9 | 2  | (S82 or S81 or S84 or S83) and ((single or one) adj ((micro adj circuit\$2) or microcircuit\$1)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 13:57 |
| S12<br>0 | 1  | (S82 or S81 or S84 or S83) and (a adj ((micro adj circuit) or microcircuit))                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 14:44 |

## EAST Search History

|          |    |  |   |     |     |                  |
|----------|----|--|---|-----|-----|------------------|
| S12<br>1 | 42 | (US-20020090649-\$ or<br>US-20020122747-\$ or<br>US-20050014129-\$ or<br>US-20020157947-\$ or<br>US-20050037348-\$ or<br>US-20030085024-\$ or<br>US-20030138941-\$ or<br>US-20030175737-\$ or<br>US-20020148727-\$ or<br>US-20030209442-\$ or<br>US-20020100692-\$).did. or<br>(US-6942771-\$ or US-6699384-\$ or<br>US-6123820-\$ or US-6140045-\$ or<br>US-6485690-\$ or US-6184029-\$ or<br>US-5194133-\$ or US-4511659-\$ or<br>US-5324483-\$ or US-6451606-\$ or<br>US-5469070-\$ or US-5351563-\$ or<br>US-5228350-\$ or US-4591414-\$ or<br>US-7108774-\$ or US-6376233-\$ or<br>US-5342498-\$ or US-4874500-\$ or<br>US-6818109-\$ or US-5993634-\$ or<br>US-6716642-\$ or US-6630359-\$ or<br>US-6251595-\$ or US-5603351-\$ or<br>US-6468416-\$ or US-5728532-\$).<br>did. or (US-6478950-\$ or<br>US-5902467-\$ or US-4167807-\$ or<br>US-5290420-\$ or US-6203758-\$).<br>did. | US-PGPUB;<br>USPAT                          | AND | OFF | 2006/12/12 14:37 |
| S12<br>2 | 1  | S121 and heme\$  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 14:09 |
| S12<br>3 | 5  | S121 and hemo\$  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 14:09 |
| S12<br>5 | 1  | S121 and electrode\$1 with gold<br>same wire   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 14:40 |
| S12<br>6 | 1  | S121 and coil  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 14:41 |
| S13<br>1 | 6  | (S82 or S81 or S84 or S83) and<br>dithiol  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 14:48 |
| S13<br>2 | 7  | dithiol same bind\$3 same<br>electrode\$1  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 14:51 |

## EAST Search History

|          |      |  |   |     |     |                  |
|----------|------|--|---|-----|-----|------------------|
| S13<br>4 | 47   | dithiol same bind\$3 and electrode\$1  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 15:14 |
| S13<br>5 | 33   | Srinivasan-Rengaswamy.in. or Saffarian-Hassan-M.in. or Feldman-Andrew-B.in. or Demirev-Plamen.in. or Scholl-Peter-F.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 14:57 |
| S13<br>6 | 4    | S135 and dithiol   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 14:58 |
| S13<br>7 | 11   | S135 and gold  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 15:03 |
| S13<br>8 | 37   | dithiol same electrode\$1 and bind\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/12 15:47 |
| S13<br>9 | 6    | ((("6123820") or ("6187164") or ("6340421"))).PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR  | OFF | 2006/12/12 15:47 |
| S14<br>0 | 8    | chan-tony.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 10:46 |
| S14<br>2 | 65   | electrochemical\$2 and (working and counter and reference) same electrode\$1 and filter with electrolyt\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 11:15 |
| S14<br>3 | 22   | electrochemical\$2 and (working and counter and reference) same electrode\$1 and filter\$3 with electrolyt\$3 and (filter\$3 with electrode\$1 with (separat\$3 or divid\$3 or between)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 11:17 |
| S14<br>4 | 738  | 204/406.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 11:17 |
| S14<br>5 | 1999 | 204/403.01,409,411,412.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 11:17 |

## EAST Search History

|          |      |   |   |     |     |                  |
|----------|------|---|---|-----|-----|------------------|
| S14<br>6 | 563  | 204/603,452.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 11:17 |
| S14<br>7 | 1332 | 205/775,777.5,792.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 11:17 |
| S14<br>8 | 8    | (S145 or S144 or S147 or S146)<br>and electrochemical\$2 and (working<br>and counter and reference) same<br>electrode\$1 and filter\$3 with<br>electrolyt\$3 and (filter\$3 with<br>electrode\$1 with (separat\$3 or<br>divid\$3 or between)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 11:20 |
| S14<br>9 | 9    | (S145 or S144 or S147 or S146)<br>and electrochemical\$2 same (liquid<br>or solution or fluid) and filter\$3 with<br>electrolyt\$3 and (filter\$3 with<br>electrode\$1 with (separat\$3 or<br>divid\$3 or between))                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 11:31 |
| S15<br>0 | 20   | (S145 or S144 or S147 or S146)<br>and (electrochemical\$2 or bind\$3)<br>and (liquid or solution or fluid) and<br>filter\$3 with electrolyt\$3 and<br>(filter\$3 with electrode\$1 with<br>(separat\$3 or divid\$3 or between))               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 11:25 |
| S15<br>1 | 11   | (S145 or S144 or S147 or S146)<br>and electrochemical\$2 and<br>((working and counter and<br>reference) same electrode\$1) and<br>(liquid or solution or fluid) and<br>(filter\$3 with electrolyt\$3) and<br>(filter\$3 with electrode\$1)    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 11:33 |

## EAST Search History

|          |    |  |   |     |     |                  |
|----------|----|--|---|-----|-----|------------------|
| S15<br>2 | 51 | (US-20040043479-\$ or<br>US-20020090649-\$ or<br>US-20020148727-\$ or<br>US-20050014129-\$ or<br>US-20050037348-\$ or<br>US-20030175737-\$ or<br>US-20020122747-\$ or<br>US-20020100692-\$ or<br>US-20020105776-\$ or<br>US-20020157947-\$ or<br>US-20030138941-\$ or<br>US-20030085024-\$ or<br>US-20040124858-\$ or<br>US-20030209442-\$).did. or<br>(US-4591414-\$ or US-6942771-\$ or<br>US-4216069-\$ or US-5324483-\$ or<br>US-6123820-\$ or US-6699384-\$ or<br>US-6478950-\$ or US-6468416-\$ or<br>US-6187164-\$ or US-6140045-\$ or<br>US-5993634-\$ or US-6340421-\$ or<br>US-6221673-\$ or US-5223117-\$ or<br>US-5603351-\$ or US-4511659-\$ or<br>US-5728532-\$ or US-7108774-\$ or<br>US-6451606-\$ or US-5351563-\$ or<br>US-5228350-\$ or US-5469070-\$ or<br>US-4874500-\$ or US-5342498-\$ or<br>US-6376233-\$ or US-6184029-\$).<br>did. or (US-5194133-\$ or<br>US-6485690-\$ or US-5290420-\$ or<br>US-6203758-\$ or US-6818109-\$ or<br>US-6716642-\$ or US-6251595-\$ or<br>US-6630359-\$ or US-5902467-\$ or<br>US-4167807-\$).did. or<br>(JP-06243896-\$).did. | US-PGPUB;<br>USPAT;<br>JPO                  | AND | OFF | 2006/12/13 15:03 |
| S15<br>3 | 7  | S152 and electrochemical and<br>(solution or fluid or liquid) and<br>(channel\$1 or (micro adj<br>channel\$1)) and (counter with<br>electrode\$1) and (reference with<br>electrode\$1) and circuit\$2 and<br>bind\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 12:23 |



## EAST Search History

|          |    |  |   |     |     |                  |
|----------|----|--|---|-----|-----|------------------|
| S15<br>4 | 51 | (US-20040043479-\$ or<br>US-20020090649-\$ or<br>US-20020148727-\$ or<br>US-20050014129-\$ or<br>US-20050037348-\$ or<br>US-20030175737-\$ or<br>US-20020122747-\$ or<br>US-20020100692-\$ or<br>US-20020105776-\$ or<br>US-20020157947-\$ or<br>US-20030138941-\$ or<br>US-20030085024-\$ or<br>US-20040124858-\$ or<br>US-20030209442-\$).did. or<br>(US-4591414-\$ or US-6942771-\$ or<br>US-4216069-\$ or US-5324483-\$ or<br>US-6123820-\$ or US-6699384-\$ or<br>US-6478950-\$ or US-6468416-\$ or<br>US-6187164-\$ or US-6140045-\$ or<br>US-5993634-\$ or US-6340421-\$ or<br>US-6221673-\$ or US-5223117-\$ or<br>US-5603351-\$ or US-4511659-\$ or<br>US-5728532-\$ or US-7108774-\$ or<br>US-6451606-\$ or US-5351563-\$ or<br>US-5228350-\$ or US-5469070-\$ or<br>US-4874500-\$ or US-5342498-\$ or<br>US-6376233-\$ or US-6184029-\$).<br>did. or (US-5194133-\$ or<br>US-6485690-\$ or US-5290420-\$ or<br>US-6203758-\$ or US-6818109-\$ or<br>US-6716642-\$ or US-6251595-\$ or<br>US-6630359-\$ or US-5902467-\$ or<br>US-4167807-\$).did. or<br>(JP-06243896-\$).did. | US-PGPUB;<br>USPAT;<br>JPO                  | AND | OFF | 2006/12/13 12:23 |
| S15<br>5 | 0  | S154 and electrochemical and<br>(solution or fluid or liquid) and<br>(channel\$1 or (micro adj<br>channel\$1)) and (counter with<br>electrode\$1) and (reference with<br>electrode\$1) and circuit\$2 and<br>bind\$3 and filter with electrolyt\$2   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 12:24 |
| S15<br>6 | 0  | S154 and electrochemical and<br>(solution or fluid or liquid) and<br>(channel\$1 or (micro adj<br>channel\$1) or passage\$2 or (micro<br>adj passage\$1) or microchannel or<br>micropassage) and (counter with<br>electrode\$1) and (reference with<br>electrode\$1) and circuit\$2 and<br>bind\$3 and filter with electrolyt\$2   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 12:25 |

## EAST Search History

|          |      |  |   |     |     |                  |
|----------|------|--|---|-----|-----|------------------|
| S15<br>7 | 0    | S154 and electrochemical and (solution or fluid or liquid) and (channel\$1 or (micro adj channel\$1) or passage\$2 or (micro adj passage\$1) or microchannel or micropassage) and (counter with electrode\$1) and (reference with electrode\$1) and circuit\$2 and filter with electrolyt\$2 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 12:25 |
| S15<br>8 | 3    | S154 and coil  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 12:48 |
| S15<br>9 | 738  | 204/406.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 12:48 |
| S16<br>0 | 1999 | 204/403.01,409,411,412.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 12:48 |
| S16<br>1 | 563  | 204/603,452.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 12:48 |
| S16<br>2 | 1332 | 205/775,777.5,792.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 12:48 |
| S16<br>3 | 54   | (S160 or S159 or S162 or S161) and coil with electrode\$1  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 15:32 |
| S16<br>4 | 43   | (S160 or S159 or S162 or S161) and coil with electrode\$1 and electrochemical  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 12:50 |
| S16<br>6 | 33   | (S160 or S159 or S162 or S161) and ((coil with (support or core)) or coiled) with electrode\$1 and electrochemical   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 12:51 |
| S16<br>7 | 9    | S154 and (electrode\$ with probe)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 15:34 |
| S17<br>0 | 8    | (S160 or S159 or S162 or S161) and electrode\$1 and powdered same gold   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 16:01 |

## EAST Search History

|          |      |   |   |     |     |                  |
|----------|------|---|---|-----|-----|------------------|
| S17<br>3 | 3    | (S160 or S159 or S162 or S161)<br>and electrode\$1 and powdered<br>same gold and adhesive               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 15:40 |
| S17<br>5 | 3    | (S160 or S159 or S162 or S161)<br>and polytetraflourethylene  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 15:41 |
| S17<br>6 | 31   | polytetraflourethylene and<br>electrode\$1  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 15:42 |
| S17<br>7 | 7    | (S160 or S159 or S162 or S161)<br>and electrode\$1 same coil\$2 same<br>meter                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 16:12 |
| S17<br>8 | 738  | 204/406.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 16:12 |
| S17<br>9 | 1999 | 204/403.01,409,411,412.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 16:12 |
| S18<br>0 | 563  | 204/603,452.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 16:12 |
| S18<br>1 | 1332 | 205/775,777.5,792.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 16:12 |
| S18<br>2 | 33   | (S179 or S178 or S181 or S180)<br>and electrode\$1 same coil\$2 same<br>(length or size or long or "m") | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 16:33 |

## EAST Search History

|          |    |   |   |     |     |                  |
|----------|----|---|---|-----|-----|------------------|
| S18<br>3 | 62 | (US-20040043479-\$ or<br>US-20020090649-\$ or<br>US-20050037348-\$ or<br>US-20030175737-\$ or<br>US-20050014129-\$ or<br>US-20030209442-\$ or<br>US-20020100692-\$ or<br>US-20020105776-\$ or<br>US-20020157947-\$ or<br>US-20020122747-\$ or<br>US-20030138941-\$ or<br>US-20030085024-\$ or<br>US-20040124858-\$ or<br>US-20020148727-\$).did. or<br>(US-6716642-\$ or US-4216069-\$ or<br>US-4822474-\$ or US-4057478-\$ or<br>US-6551495-\$ or US-5180968-\$ or<br>US-4969978-\$ or US-4166775-\$ or<br>US-6699384-\$ or US-6478950-\$ or<br>US-6468416-\$ or US-6187164-\$ or<br>US-6140045-\$ or US-5395705-\$ or<br>US-5993634-\$ or US-6818109-\$ or<br>US-6251595-\$ or US-6942771-\$ or<br>US-4659435-\$ or US-4364810-\$ or<br>US-6203758-\$ or US-5469070-\$ or<br>US-6129824-\$ or US-6630359-\$ or<br>US-4167807-\$ or US-6340421-\$).<br>did. or (US-6221673-\$ or<br>US-5223117-\$ or US-5728532-\$ or<br>US-5603351-\$ or US-5324483-\$ or<br>US-4511659-\$ or US-5351563-\$ or<br>US-7108774-\$ or US-6451606-\$ or<br>US-6123820-\$ or US-5228350-\$ or<br>US-5342498-\$ or US-4874500-\$ or<br>US-4591414-\$ or US-6376233-\$ or<br>US-6184029-\$ or US-5194133-\$ or<br>US-6485690-\$ or US-5290420-\$ or<br>US-5902467-\$ or US-3915810-\$).<br>did. or (JP-06243896-\$).did. | US-PGPUB;<br>USPAT;<br>JPO                  | AND | OFF | 2006/12/13 16:15 |
| S18<br>4 | 32 | S183 and electrode\$1 with (length<br>or long or "m" or "m." or meter\$1<br>or size or "ft" or "ft." or feet)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 16:26 |
| S18<br>5 | 35 | S183 and electrode\$1 with (length<br>or long or "m" or "m." or meter\$1<br>or size or "ft" or "ft." or feet or<br>micron\$1 or diamter or thickness or<br>width)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 16:33 |
| S18<br>6 | 0  | S183 and electrode\$1 with "coiled<br>around"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/14 13:08 |

## EAST Search History

|          |    |  |   |     |     |                  |
|----------|----|--|---|-----|-----|------------------|
| S18<br>7 | 5  | (S179 or S178 or S181 or S180) and electrode\$1 with "coiled around"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 16:37 |
| S18<br>8 | 22 | electrochemical and electrode\$1 with "coiled around"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/13 16:37 |
| S18<br>9 | 63 | (US-20050037348-\$ or US-20050014129-\$ or US-20030175737-\$ or US-20020090649-\$ or US-20020157947-\$ or US-20020105776-\$ or US-20040043479-\$ or US-20030013007-\$ or US-20020122747-\$ or US-20030138941-\$ or US-20030085024-\$ or US-20040124858-\$ or US-20020148727-\$ or US-20020100692-\$ or US-20030209442-\$).did. or (US-6699384-\$ or US-6478950-\$ or US-6468416-\$ or US-6551495-\$ or US-5351563-\$ or US-6187164-\$ or US-6140045-\$ or US-5469070-\$ or US-5342498-\$ or US-5180968-\$ or US-4969978-\$ or US-4591414-\$ or US-6184029-\$ or US-6942771-\$ or US-5993634-\$ or US-5603351-\$ or US-5324483-\$ or US-4511659-\$ or US-7108774-\$ or US-6451606-\$ or US-6123820-\$ or US-5228350-\$ or US-6340421-\$ or US-6221673-\$ or US-5223117-\$ or US-4874500-\$). did. or (US-6129824-\$ or US-5395705-\$ or US-5728532-\$ or US-6376233-\$ or US-5194133-\$ or US-6485690-\$ or US-6203758-\$ or US-5290420-\$ or US-4822474-\$ or US-4364810-\$ or US-4216069-\$ or US-4166775-\$ or US-3915810-\$ or US-4659435-\$ or US-4057478-\$ or US-6251595-\$ or US-6818109-\$ or US-6716642-\$ or US-6630359-\$ or US-5902467-\$ or US-4167807-\$). did. or (JP-06243896-\$).did. | US-PGPUB;<br>USPAT;<br>JPO                  | AND | OFF | 2006/12/14 15:30 |
| S19<br>1 | 7  | dithiol same bind\$3 same electrode\$1   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/14 12:31 |

## EAST Search History

|          |    |   |   |     |     |                  |
|----------|----|---|---|-----|-----|------------------|
| S19<br>2 | 47 | dithiol same bind\$3 and<br>electrode\$1  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/14 12:31 |
| S19<br>3 | 62 | (US-20040043479-\$ or<br>US-20020090649-\$ or<br>US-20050037348-\$ or<br>US-20030175737-\$ or<br>US-20050014129-\$ or<br>US-20030209442-\$ or<br>US-20020100692-\$ or<br>US-20020105776-\$ or<br>US-20020157947-\$ or<br>US-20020122747-\$ or<br>US-20030138941-\$ or<br>US-20030085024-\$ or<br>US-20040124858-\$ or<br>US-20020148727-\$).did. or<br>(US-6716642-\$ or US-4216069-\$ or<br>US-4822474-\$ or US-4057478-\$ or<br>US-6551495-\$ or US-5180968-\$ or<br>US-4969978-\$ or US-4166775-\$ or<br>US-6699384-\$ or US-6478950-\$ or<br>US-6468416-\$ or US-6187164-\$ or<br>US-6140045-\$ or US-5395705-\$ or<br>US-5993634-\$ or US-6818109-\$ or<br>US-6251595-\$ or US-6942771-\$ or<br>US-4659435-\$ or US-4364810-\$ or<br>US-6203758-\$ or US-5469070-\$ or<br>US-6129824-\$ or US-6630359-\$ or<br>US-4167807-\$ or US-6340421-\$).<br>did. or (US-6221673-\$ or<br>US-5223117-\$ or US-5728532-\$ or<br>US-5603351-\$ or US-5324483-\$ or<br>US-4511659-\$ or US-5351563-\$ or<br>US-7108774-\$ or US-6451606-\$ or<br>US-6123820-\$ or US-5228350-\$ or<br>US-5342498-\$ or US-4874500-\$ or<br>US-4591414-\$ or US-6376233-\$ or<br>US-6184029-\$ or US-5194133-\$ or<br>US-6485690-\$ or US-5290420-\$ or<br>US-5902467-\$ or US-3915810-\$).<br>did. or (JP-06243896-\$).did. | US-PGPUB;<br>USPAT;<br>JPO                  | AND | OFF | 2006/12/14 13:09 |
| S19<br>4 | 1  | S193 and electrode\$1 with ((coil\$3<br>or wrap\$3 or wound or wind\$3) adj<br>around)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/14 13:09 |
| S19<br>5 | 27 | S189 and gold with electrode\$1   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/14 13:13 |

## EAST Search History

|          |    |  |   |     |     |                  |
|----------|----|--|---|-----|-----|------------------|
| S19<br>6 | 26 | S189 and ((size or shape or length) with electrode\$1) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/14 13:18 |
| S19<br>7 | 4  | S189 and powder same gold same electrode\$1            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/14 13:59 |
| S19<br>8 | 20 | S189 and wire and gold                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/14 14:00 |
| S19<br>9 | 12 | S189 and electrode\$1 with wire and gold               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/14 14:00 |
| S20<br>0 | 14 | maley.in. and electrochemical.ab.                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | AND | OFF | 2006/12/14 15:30 |
| S20<br>1 | 1  | "4508613".PN.  | USPAT;<br>USOCR                             | AND | OFF | 2006/12/14 15:36 |